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SEQUENCE LISTING

<110> University of British Columbia
Mahenthiralingam, Eshwar

<120> Method for the Identification and Speciation of
Bacteria of the Burkholderia Cepacia Complex

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<150> 60/099,115

<151> 1998-09-03

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<170> PatentIn Ver. 2.0

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gtggtcgaga tctacggccc ggaatcgctc ggtaaaacca cgctcacgct gcaggtcatt 240
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gattcgctgc cgggcctgca ggcgcgctg atgtcgcagg cgctgcgcaa gctgaccggc 540

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acgatcaagc gcacgaactg cctggtgata ttcatacaacc agattcgtat gaagatcggc 600
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gtgctgtctc atatccgccg gatcggctcg atcaagaaga acgacgaggt gatcggcaac 720
gaaacccgtg tgaaggtcgt caagaacaag gtgtcgccgc cgttcgcgca agcgatcttc 780
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ggcaaggaca acgcgcgtga attcctgcgc gagaatccgg aaatcgcgcg cgagatcgag 960
aaccgcatcc gcgaatcgct cggcgtcgtc gcaatgcccg atggtgcagg caacgaagcc 1020
gaggcgatgg acgaagaaga g                                     1041

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<210> 15

<211> 1041

<212> DNA

<213> Burkholderia cepacia

<220>

<223> recA gene

<400> 15

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ggcaagggct cgatcatgcg catggggcag ggcgaggcgg cggaagatat ccaggtcgtc 120
tccacgggtt cgctgggcct cgatatcgcg cttggcgctc gcggcctgcc gcgcggccgg 180
gtggtcgaga tctacggccc ggaatcgctc ggtaaaacca cgctcacgct gcaggtcatc 240
gccgagctgc agaagctggg cggcaccgca gcgttcacgc acgccgagca cgcgctcgac 300
gtccagtacg cgtcgaagct cggcgtgaat gtgcccggagc tgctgatttc gcagccggac 360
accggcgagc aggcgctgga aatcaccgat gcgctgggtc gctcgggctc gatcgacatg 420
atcgctcatc actcggctcg gccgctcgtg ccgaaggccg aaatcgaagg cgagatgggc 480
gattcgctgc cgggcctgca ggcccgcctg atgtcgcagg cgctgcgcaa gctgaccggc 540
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gtgatgttcg gcaacccgga aaccacgacg ggcggtaacg cgctgaagtt ctatgcgtcg 660
gtgctgctcg atatccgccg gatcggctcg atcaagaaga acgacgaggt gatcggcaac 720
gaaacccgcg tgaaggtcgt caagaacaag gtgtcgccgc cgttcgcgca agcgatcttc 780
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ggcaaggaca acgcgcgtga attcctgcgc gagaatccgg aaatcgcgcg cgagatcgag 960
aaccgcatcc gcgaatcgct cggcgtcgtc gcaatgcccg atggtgcagg caacgaagcc 1020
gaggcgatgg acgaagaaga g                                     1041

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<210> 16

<211> 1041

<212> DNA

<213> Burkholderia cepacia

<220>

<223> recA gene

<400> 16

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tccacgggtt cgctgggtct cgacatcgcg ctgggcgtcg gcggcttgcc gcgcggccgg 180
gtggtcgaga tctacggtcc ggaatcgctc ggtaagacca cgctcacgct gcaggtcatc 240
gccgagctgc agaagctggg cggcaccgcg gcgttcacgc acgccgagca cgcgctcgac 300
gttcaatatg ccgcgaagct cggcgtgaac gtgcccggagc tgctgatctc gcagccggac 360

```



```

accggcgagc aggccctcga aatcaccgat gcgctggtgc gctcgggctc gatcgacatg 420
atcgatcatcg actcggtcgc ggcgctcgtg ccgaaggccg aaatcgaagg cgagatgggc 480
gattcgctgc cgggtctgca ggcgcgcctg atgtcgagg cgctgcgcaa gctgaccggt 540
acgatcaagc gcacgaactg cctcgtgatc ttcatacaacc agatccggat gaagatcggc 600
gtgatgttcg gcaaccggga aaccacgacg ggcggtaacg cactgaagtt ctactcgtcg 660
gtgcgtctcg atatccgccg gattggctcg atcaagaaga gcgacgaggt gatcggcaac 720
gaaacccgcg tgaaggctcg caagaacaag gtgtcgccgc cgttcgcgca agcgatcttc 780
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ggcaaggaca acgcgcgcga attcctgcgc gaaaatccgg aaatcgcgcg cgagatcgag 960
aaccgcatcc gcgaatcgct cggcgtcgtc gcaatgcccg atggcgagg caacgaagcc 1020
gaggcgatgg acgaagaaga g                                     1041

```

<210> 17

<211> 1041

<212> DNA

<213> Burkholderia cepacia

<220>

<223> recA gene

<400> 17

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tccacgggggt cgctgggtct cgacatcgcg ctgggcgtcg gcggcttgcc gcgcggccgg 180
gtggtcgaga tctacgggtcc ggaatcgctc ggtaagacca cgctcacgct gcaggctcatc 240
gcccagatgc agaagctggg cggcaccgcg gcgttcacatc acgccgagca cgcgctcgac 300
gttcaatatg ccgcgaagct cggcgtgaac gtgccggagc tgctgatctc gcagccggac 360
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atcgatcatcg actcggtcgc ggcgctcgtg ccgaaggccg aaatcgaagg cgagatgggc 480
gattcgctgc cgggtctgca ggcgcgcctg atgtcgagg cgctgcgcaa gctgaccggt 540
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gtgatgttcg gcaaccggga aaccacgacg ggcggtaacg cactgaagtt ctactcgtcg 660
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aaccgcatcc gcgaatcgct cggcgtcgtc gcaatgcccg atggcgagg caacgaagcc 1020
gaggcgatgg acgaagaaga g                                     1041

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<210> 18

<211> 1041

<212> DNA

<213> Burkholderia cepacia

<220>

<223> recA gene

<400> 18

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atgaccgccg agaagagcaa agcgctggcg gccgcgctcg cgcagatcga aaagcagttc 60
ggcaagggct cgatcatgcg gatgggagac ggcgaagcgg ccgaggatat ccaggctcgtc 120
tccacgggggt cgctgggtct cgacatcgcg ctgggcgtcg gcggcttgcc gcgcggccgg 180

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gtgggtcgaga tctacgggtcc ggaatcgctcc ggtaagacca cgctcacgct gcaggtcatc 240
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gttcaatatg ccgcgaagct cggcgtgaac gtgccggagc tgctgatctc gcagccggac 360
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atcgtcacgc actcggctgc ggcgctcgtg ccgaaggccg aaatcgaagg cgagatgggc 480
gattcgctgc cgggtctgca ggcccgcctg atgtcgcagg cgctgcgcaa gctgaccggt 540
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aaccgcatcc gcgaatcgct cggcgtcgtc gcaatgcccg atggcgagc caacgaagcc 1020
gaggcgatgg acgaagaaga g                                     1041

```

<210> 19

<211> 1041

<212> DNA

<213> Burkholderia cepacia

<220>

<223> recA gene

<400> 19

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tccacggggt cgctgggtct cgacatcgcg ctgggcgctcg gcggcttgcc gcgcggccgg 180
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gccgagctgc agaagctggg cggcaccgcg gcgttcacgc acgccgagca cgcgctcgac 300
gttcaatatg ccgcgaagct cggcgtgaac gtgccggagc tgctgatctc gcagccggac 360
accggcgaa atgccctcga aatcaccgat gcgctgggtgc gctcgggctc gatcgacatg 420
atcgtcacgc actcggctgc ggcgctcgtg ccgaaaggcc gaaatcgaat gcgaaatggg 480
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gaaacccgcg tgaaggctcg caagaacaag gtgtcgccgc cgttccgcga agcgatcttc 780
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aaccgcatcc gcgaatcgct cggcgtcgtc ccaatgcccg atggcgagc caacgaagcc 1020
gaggcgatgg acgaagaaga g                                     1041

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<210> 20

<211> 18

<212> DNA

<213> Burkholderia cepacia

<220>

<223> recA forward primer (BCRU1*)

<400> 20

18

tgcggatggg cgacggcg

<210> 21

<211> 19

<212> DNA

<213> Burkholderia cepacia

<220>

<223> recA reverse primer (BCRU2*)

<400> 21

cagttctgtc gcttgatcg

19

<210> 22

<211> 19

<212> DNA

<213> Burkholderia multivorans

<220>

<223> B. multivorans specific recA forward primer
(BCRBM1)

<400> 22

cggcgtcaac gtgcggat

19

<210> 23

<211> 19

<212> DNA

<213> Burkholderia multivorans

<220>

<223> B. multivorans specific reA reverse primer
(BCRBM2)

<400> 23

tccatcgctt cggcttcgt

19

<210> 24

<211> 18

<212> DNA

<213> Burkholderia vietnamiensis

<220>

<223> B. vietnamiensis specific recA forward primer
(BCRBV1)

<400> 24

gggcgacggc gacgtgaa

18

<210> 25

<211> 18

<212> DNA

<213> Burkholderia vietnamiensis

<220>
 <223> B. vietnamiensis specific recA reverse primer
 (BCRBV2)

<400> 25 18
 tcggccttcg gcaccagt

<210> 26
 <211> 18
 <212> DNA
 <213> Burkholderia cepacia

<220>
 <223> B. cepacia Genomovar IV specific recA forward
 primer (BCRG41)

<400> 26 18
 accggcgagc aggcgctt

<210> 27
 <211> 18
 <212> DNA
 <213> Burkholderia cepacia

<220>
 <223> B. cepacia Genomovar IV specific recA reverse
 primer (BCRG42)

<400> 27 18
 acgccatcgg gcatggca

<210> 28
 <211> 18
 <212> DNA
 <213> Burkholderia cepacia

<220>
 <223> B. cepacia Genomovar III, RG-B recA specific
 forward primer

<400> 28 18
 gcaagtcatc gctgagaa

<210> 29
 <211> 18
 <212> DNA
 <213> Burkholderia cepacia

<220>
 <223> B. cepacia Genomovar III, RG-B recA specific
 reverse primer

<400> 29
tacgccatcg ggcattgct

18

<210> 30
<211> 18
<212> DNA
<213> Burkholderia cepacia

<220>
<223> B. cepacia Genomovar I specific recA forward
primer (BCRG11)

<400> 30
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18

<210> 31
<211> 19
<212> DNA
<213> Burkholderia cepacia

<220>
<223> B. cepacia Genomovar I specific recA reverse
primer (BCRG12)

<400> 31
cacgccgatc ttcatacga

19

<210> 32
<211> 19
<212> DNA
<213> Burkholderia cepacia

<220>
<223> B. cepacia Genomovar III, RG-A specific recA
forward primer (BCRG31)

<400> 32
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19

<210> 33
<211> 18
<212> DNA
<213> Burkholderia cepacia

<220>
<223> B. cepacia Genomovar III, RG-A specific recA
reverse primer (BCRG32)

<400> 33
tcgagacgca ccgacgag

18

<210> 34
<211> 18

<212> DNA
 <213> Burkholderia cepacia

 <220>
 <223> B. cepacia recA reverse primer (BCR4)

 <400> 34
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 <210> 35
 <211> 18
 <212> DNA
 <213> Burkholderia cepacia

 <220>
 <223> B. cepacia recA forward primer (BCR3)

 <400> 35
 gtcgcaggcg ctgcgcaa 18

 <210> 36
 <211> 19
 <212> DNA
 <213> Burkholderia cepacia

 <220>
 <223> B. cepacia recA forward primer (BCRU1)

 <400> 36
 atcatgcgga tgggcgacg 19

 <210> 37
 <211> 19
 <212> DNA
 <213> Burkholderia cepacia

 <220>
 <223> B. cepacia recA reverse primer (BCRU2)

 <400> 37
 cagttctgtc gcttgatcg 19

 <210> 38
 <211> 19
 <212> DNA
 <213> Burkholderia cepacia

 <220>
 <223> B. cepacia Genomovar III, RG-B recA specific
 forward primer

 <400> 38
 gctgcaagtc atcgctgaa 19

<210> 39
<211> 18
<212> DNA
<213> Burkholderia cepacia

<220>
<223> B. cepacia RG-C specific recA forward primer

<400> 39
gtcgggtaaa accacgtg 18

<210> 40
<211> 18
<212> DNA
<213> Burkholderia cepacia

<220>
<223> B. cepacia RG-C specific recA reverse primer

<400> 40
tccgcagccg caccttca 18

09763298 02200
T00220 86229260